



Cyclops L

Portable industrial pyrometer

The Cyclops series sets the industry standard for high-quality, portable, non-contact pyrometers. It is ideal for accurate temperature measurement in any application in temperature ranges of 200 - 3000°C / 392 - 5432°F.

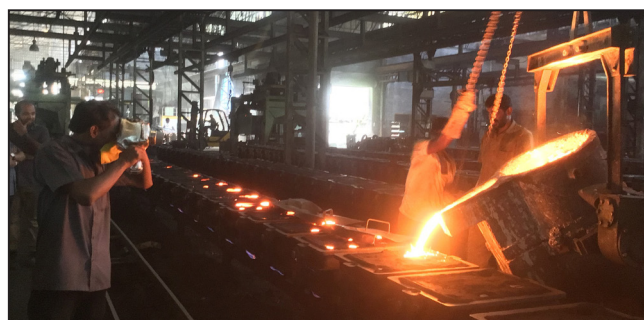
Using through the lens sighting, the single handed, ergonomic design enables you to make temperature measurements in harsh environments. The high quality fully focusable lenses ensure the smallest spot size measurements at any distance. On-board data-logging means accurate measurements are stored directly to the instrument.

Cyclops L offers four trigger modes: Single, Latch, Burst and Route Mode. When the trigger is pressed, all processed temperature values, including peak, continuous, average and valley, are displayed in real time. The Cyclops L offers fast data logging with onboard storage, supporting Bluetooth® and USB connectivity for periodic downloads or live streaming to a mobile device for analysis.

Cyclops logger software enables data transfer to computers or mobile devices, displaying current readings, a table view, and a trend view.

Accessories include a heat-resistant jacket, waterproof carry case, and long eye relief eyepiece adapter for use with protective goggles or face shields.

Cyclops L is a family of portable non-contact pyrometers suitable for a range of applications in steel, glass, cement and other industries.



FEATURES & BENEFITS

- **Rugged instrument casing** ensures the Cyclops can withstand harsh environments for extended periods, protecting against high temperatures, bumps and drops.
- **Standard Bluetooth® and USB connectivity** allows wireless and USB options for communicating straight to a mobile device or PC.
- **Traceable calibration available** to guarantee your measurement accuracy.
- **Free logger software** provides data analysis to identify on-site trends, improve process efficiency or protect assets and prolong their lifecycles.
- **Internal Data Logging** of up to 9999 readings and 9 routes, eliminating the need to for separate storage device.

See degrees differently.

SPECIFICATIONS

	C055L	C100L	C160L	C390L
Measurement Range:	1000 to 2000 °C / 1832 to 3632 °F	600* to 3000 °C / 1112 to 5432 °F	200 to 1400 °C / 392 to 2552 °F	450 to 1400 °C / 842 to 2552 °F
Display:	External backlit LCD display 4-digit LCD in viewfinder	External backlit LCD display 5-digit LCD in viewfinder	External backlit LCD display 5-digit LCD in viewfinder	External backlit LCD display 4-digit LCD in viewfinder
Measuring modes:	Continuous, Peak, Valley and advanced Meltmaster	Continuous, Peak, Valley and Average	Continuous, Peak, Valley and Average	Continuous, Peak, Valley and Average
Data logging:	9999 readings and 9 routes internally; Mobile (4 GB standard storage) or PC logger software (via Bluetooth® or USB connector)			
Data logging modes:	Classic, Burst, Latched, Route			
Optical system:	9° field of view; eyepiece adjustable -3.75 to +2.5 diopters			
Focusing Range:	Fixed focus, nominally at 5 m / 197 in. from pyrometer body datum	1 m / 39.3 in. to infinity Optional close-up lenses allow focus down to 215 mm / 8.5 in	1 m / 39.3 in. to infinity Optional close-up lenses allow focus down to 215 mm / 8.5 in	1 m / 39.3 in. to infinity
Minimum target size:	Parallel 28 mm / 1.1 in target spot diameter from lens to 5 m / 197 in.	5 mm at 1 m / 0.19 in. at 39.3 in., 1.8 mm / 0.07 in. and 0.4 mm / 0.016 in. - with optional close up lens	5 mm at 1 m / 0.19 in. at 39.3 in., 2.0 mm / 0.08 in. and 0.5 mm / 0.2 in. - with optional close up lens	4.8 mm / 0.19 in. at 101.4 cm, / 39.9 in nominal from the pyrometer body datum
Spectral response:	Nominally 0.55 µm	1 µm with advanced spectral filtering	1.6 µm with advanced spectral filtering	Nominally 3.9 µm
Emissivity adjustment:	0.10 to 1.20 in 0.01 step graduations			
Response time:	30 ms	30 ms	30 ms	500 ms (to 98%)
Display update time:	0.5 s			
Accuracy:	0.5 %K	0.25 %K	0.25 %K + 2 °C	0.5 %K
Measurement resolution:	0.1 °C / 1 °F			
Measurement field of view:	Fixed Focus	180:1 circular	180:1 circular	180:1 square
Repeatability:	1 °C / 2 °F	1 °C / 2 °F	1 °C / 2 °F	1 °C / 2 °F
Operating temp range:	0 to 50 °C / 32 to 122 °F			
Power Req.:	One MN1604 / 6LR61 / PP3 Battery or USB			
Output:	Bluetooth®/USB Connector			
Weight:	0.83 kg / 1.8 lb.			
Sealing:	IP40			
Free Data-logger Software:	Available at https://www.ametek-land.com/products/software/cyclopslogger ; For Android devices, the Cyclops Data Logger App is available through the Google Play Store			
Standard accessories:	Lens cap, protection window/filter, battery, wrist strap, USB cable, heat protection jacket			
Optional accessories:	Waterproof carry case, long eye relief eyepiece	Close-up lenses, water-proof carry case, long eye relief eyepiece, Neutral Density filters: Options 1F or 2F - filters darken the image to provide better image contrast on bright targets, use two for higher temp. applications.	Close-up lenses, water-proof carry case, long eye relief eyepiece	Waterproof carry case, long eye relief eyepiece

*Measurement displayed 550 to 3000 °C / 1022 to 5432 °F

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Land is under licence. Other trademarks and trade names are those of their respective owners.

CONTACT US

WEB: www.ametek-land.com

EMAIL: land.enquiry@ametek.com

We are fully committed to Quality Assurance. See all our accreditations at AMETEK-LAND.COM/QUALITY